

MODIS Team Meeting Minutes

Minutes of the MODIS Team Meeting held on Tuesday October 26 1993.

Action Items:

69. Determine if the Schaeffer Magnetics' plans to calibrate the encoder are adequate. Assigned to Roberto 8/31/93. Due 10/ 1/93 CLOSED 10/26/93
70. Evaluate the thermal design of the Schaeffer Magnetics' motor/encoder. Assigned to Daelemans 8/31/93. Due 10/15/93
71. Provide technical input which addresses the definition and impact of levels of software criticality for the MODIS Software Management Requirements Document (SMRD) Configuration Change Request (CCR). Assigned to Sabatino 9/21/93. Due 10/19/93
72. Investigate the adequacy of SBRC capability to maintain temperature plateaus during instrument testing in thermal vacuum. Assigned to Daelemans 10/12/93. Due 11/ 2/93
73. Complete the MODIS brochure and released for printing. Assigned to Bauernschub 10/18/93. Due 11/15/93.
74. Prepare and submit a Configuration Change Request which revises the definition and impact of levels of software criticality for the MODIS Software Management Requirements Document. Assigned to Anderson 10/26/93. Due 12/ 1/93
75. Determine if the four electronic module boxes can be individually thermal tested in air, or must the thermal testing be done in a vacuum. Assigned to Silva 10/26/93. Due 11/ 9/93
76. Provide a schedule of the SBRC internal CDRs. Assigned to Bauernschub 10/27/93. Due 11/23/93

The following items were distributed:

- 1) Weekly Status Report #110
- 2) SBRC Memos submission from week #102
- 3) Minutes of the last team meeting

Attendees:

✓ Dick Weber	✓ Bruce Guenther	June Tveekrem
✓ John Bauernschub	✓ George Daelemans	Bob Martineau
Rosemary Vail	John Barker	✓ Bob Silva
Lisa Shears	Joann Harnden	Ken Brown
✓ Mike Roberto	✓ Patricia Weir	✓ Robert Kiwak
Nelson Ferragut	✓ Mitch Davis	✓ Harvey Safren
✓ Gene Waluschka	Jack Ellis	✓ Ed Knight
Kate Forrest	✓ Ken Anderson	Harry Montgomery
Bill Barnes	✓ Rick Sabatino	✓ Marvin Maxwell
✓ Les Thompson	✓ Cherie Congedo	

MODIS Weekly Technical Report for October 29, 1993

The MODIS team is looking into MODIS development descopes again.

Gene Waluschka has completed all runs for determining ghosting along and cross track with the SBRC fixes to reduce ghosting. Results show the contribution of each surface to ghosting. Results indicate ghosting is not a problem for VIS and NIR. There is some residual ghosting in the cooled focal planes, but the problem is vastly reduced. The next step is to determine if the ghosting contribution to the error budget is acceptable.

An optical tolerance analysis for MODIS needs to be done by GSFC.

A request has been made to Stephanie Gorman to include a weekly listing of all MODIS and S/C memos received by GSFC.

George Daelemans indicated his opposition to testing electronics boxes in air and then predicting performance in vacuum. This can be done at a card level, but at the box level it is much more difficult to predict performance in vacuum based on measurements in air.

One problem related to electronic testing at the box level in vacuum may be difficulty in getting connectors for vacuum feedthrus. Also, Dick Julian is concerned about noise at the feedthrus. Bob Silva will follow up on whether SBRC is required to do this testing in vacuum. I believe the testing should be done in vacuum.

SBRC indicated the instrument would take two or three days to cool down after launch. George Daelemans will follow up with Paul Bortfeldt. George estimates cool down to where survival heaters would be required within a couple of hours or so. The time of cool down impacts how survival heaters need to be treated for MODIS soon after launch.

Ed Knight mentioned that for the Engineering Model, the Solar Diffuser Stability Monitor will not have the same view angle as the instrument.

At this time there are three temperature settings for the cooled detectors. The temperatures have been selected so performance requirements can be met at any one of the settings.

The lack of redundancy for the outgas heaters is under evaluation.

Mitch Davis mentioned that Harris had another PROM failure. Dick Julian is switching to Electrically Erasable (EE) PROMs.

Rick Sabatino stated the flight software schedule is in jeopardy.

Cherie Congedo is reviewing preliminary STOP results with Gene Waluschka and George Daelemans. She needs GSFC input for an error budget.

Bob Kiwak has completed review of the interim materials list.

Bob Silva mentioned that GSFC has completed change 1 to RevA of the PAR.

Bob Silva and Mike Roberto will be looking into what EM components can be saved for flight.

Mike Roberto October 28, 1993